

RasaAndishan Moj Pardaz

رساندیشان موج پرداز (دانش بنیان)



طراح و سازنده انواع آشکارسازهای خطی و دوربین های تصویربرداری

- Robust & Reliable Hardware & Software Architecture
- Multi Interface Connectivity (USB2.0,USB3.0,Ethernet)
- Cross Platform - Linux & windows Application Support
- Plugin Based API and Sophisticated FlowGraph Structure
- VariousSDK(C#,C++,MATLAB,VB.Net,Python,LabVIEW)Included



Overview

RA-ASC-5000 is a USB3.0 Bus Powered Area Scan Camera that incorporates a 2592 x 2048 Pixels CMOS array with Pixel Size of 4.8 μm by 4.8 μm .

It is capable of detecting light in the 350 - 1100 nm range.

The Frame rate of This cost effective Color Area scan camera is up to 60 Hz.

This camera Supports External Triggering at rate of up to 60 Hz.

GUI Features

Operates up to 2 Cameras Simultaneously without loss of any data

Cross Platform Software with Auto-Detection of Compatible Cameras

Recording @ Predefined Counts, Time, Cache Size and Capture Size

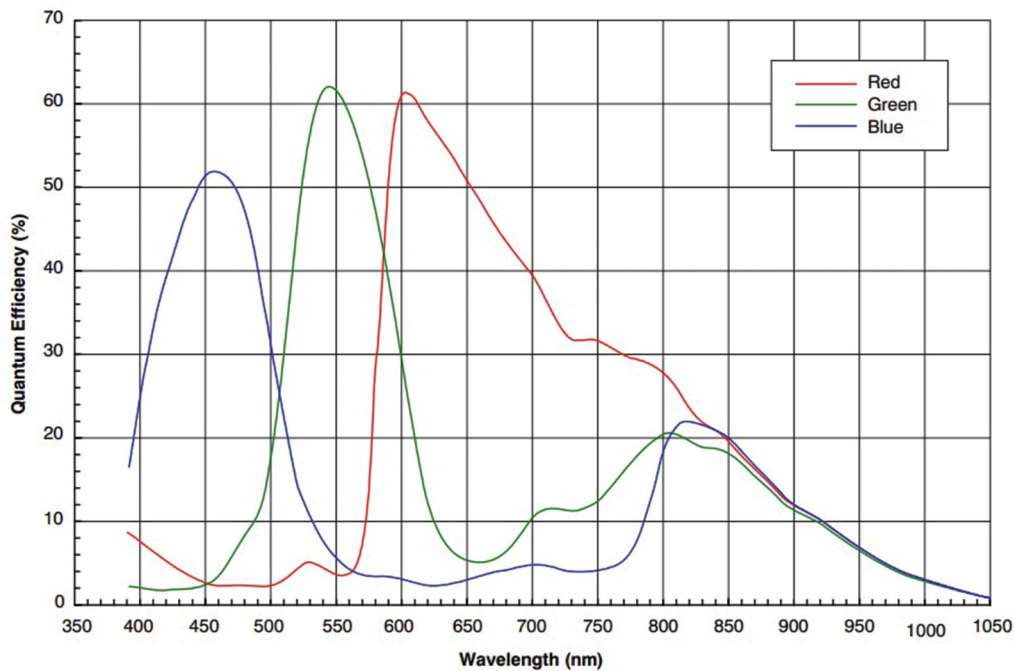
Best Responsiveness by Separate Threads of Data Acquisition, Processing and Monitoring

Application

RA-ASC-5000 is Designed for Applications in Optics, Imaging, Biology,

Digital Image Correlation(DIC), Particle image velocimetry(PIV), Industrial Process Control,

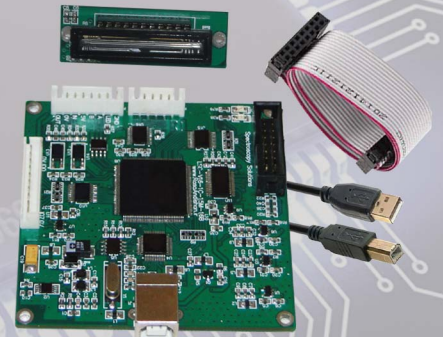
General Purpose Laboratory Use



Specification

Sensor Spec	
Sensor Type	Color CMOS Area Image Sensor
Light Spectrum	Visible
Pixel Size	4.8 um x 4.8 um
Pixel Height	4.8 um
Pixel Width	4.8 um
Effective Pixels	2592 x 2048
Image Resolution	5 MP
Image Size (HxV)	12.44 x 9.8 (mm)
Max Pixel Frequency	320 MHz
Max Frame Rate	up to 60 fps @ 5 MP
Shutter Type	PipeLine Global Shutter
Exposure Control	✓
AOI Support	✓
Frame Rate @ AOI	470 fps @ 640x480 Pixels 1200 fps @ 96 pixels x 96 pixels
Max Trigger Rate	up to 60 fps @ 5 MP
Color Depth	8 Bit per Pixel
Brightness Coefficient	512 Analog Steps
Contrast Coefficient	1024 Analog Steps
Trigger Signal	TTL 5 V and 3.3 V
Trigger Mode	Free Running, Software Trigger, Hardware Trigger
Hardware Trig Polarity	Rising Edge, Falling Edge, Both Edges, High Level, Low Level
Trigger Factor	0 To 65535
Max Power Usage	4 Watt No External Power Requirements
Min Trigger Pulse Length	30 ns
Trigger Delay	0 to 16 Min - in 1 us Steps
Interface	Super Speed USB 3.0 (3.22 Gbit/s)
Weight Dimension	190 gr (Without Lens) 60 mm x 60 mm x 40 mm
Temperature Range	- 30 to + 70 (°C)

رسا اندیشان موج پرداز (دانش بنیان)



حکیمیه، میدان فجر، خیابان خرم، خیابان سحر، کوچه پگاه ۶، پلاک ۱۱، واحد ۷

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